

**To:** Smith, Art[Smith.Art@epa.gov]  
**From:** Singhvi, Raj  
**Sent:** Wed 1/22/2014 8:43:09 PM  
**Subject:** RE: Confirming ERT's analyses for 4-methylcyclohexanemethanol  
[JOHNMSDS.pdf](#)

Please see attached MSDS sheet(CAS 348850-03-5). This is the chemical we analyzed for. The standard was received from Niranjana Selar of Cincinnati lab. CAS 34885-03-5

I hope I have answered your concern/ questions.

**From:** Smith, Art  
**Sent:** Wednesday, January 22, 2014 2:58 PM  
**To:** Gilbert, John  
**Cc:** Singhvi, Raj  
**Subject:** Confirming ERT's analyses for 4-methylcyclohexanemethanol

The MSDS that was sent by Raj is for a different chemical than what was reportedly stored at Freedom Industries in Charleston, WV. The MSDS sent by Raj is for 1,4-Cyclohexanedimethanol (CAS No. 105-08-8). The "Crude MCHM" stored at Freedom Industries was produced by Eastman Chemical (see attached MSDS). According to their MSDS, the main ingredient in that mixture is 4-methylcyclohexanemethanol (CAS 34885-03-5). Eastman's MSDS indicates that 1,4-Cyclohexanedimethanol is present in the mixture but at 1%-2% by weight.

So, just to confirm what we did here: did we analyze for the 4-MCHM and report accordingly, or was it the 1,4-Cyclohexanedimethanol?

Thanks.

**From:** Gilbert, John  
**Sent:** Monday, January 20, 2014 4:19 PM  
**To:** Smith, Art  
**Subject:** FW: Ohio River sample Results for 4-MethylCyclohexanemethanol (cis and Trans)

Art,

Looks like Raj's numbers are on track with Louisville Water.

I only read the email, and have not looked at the actual report.

I have sent this only to your, send this onto anyone you want.

Give me a call tonight, or tomorrow morning.

-John | ERT | 513-607-1571 (cell)

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**From:** Singhvi, Raj

**Sent:** Monday, January 20, 2014 4:02 PM

**To:** Gilbert, John

**Cc:** Compton, Harry; Carpenter, Angela; Heimerman, Jeffrey; Barr, Pamela;

Ex. 6 - Personal Privacy

**Subject:** Ohio River sample Results for 4-MethylCyclohexaneMethanol (cis and Trans)

John,

Please find attached MSDS data , analysis results , and Chain of custody for the 12 samples for 4-MethylCyclohexaneMethanol . The sample results shows the presence of 4-MethylCyclohexaneMethanol at low ppb level ( 0.31 to 0.66 ppb). The analytical method was

developed based on EPA Method SW 8270, and all requirement for NEALC were met. The SOP (SERAS 1857) for GC/MS is under preparation based on method developed on fast track.

If there are any questions, Please call me.

Thanks.

-Raj

Results of the Analysis for  
4-Methylcyclohexane Methanol (Cis & Trans) in Water  
WA # 0-47001 MCHM Ohio River Site

Sample Number	Concentration µg/L		Reporting Limits µg/L
WBLK011914	U		0.500
Site 1 Vertical 1	0.660		0.500
Site 1 Vertical 2	0.370	J	0.560
Site 1 Vertical 3	0.640		0.500
Site 2 Vertical 1	0.620		0.530
Site 2 Vertical 2	0.460	J	0.560
Site 2 Vertical 3	0.570		0.560
Site 3 Vertical 1	0.480	J	0.540
Site 3 Vertical 2	0.450	J	0.530
Site 3 Vertical 3	0.560		0.500
Site 4 Vertical 1	0.320	J	0.550
Site 4 Vertical 2	0.310	J	0.500
Site 4 Vertical 3	0.420	J	0.500

"J" Denotes the result was less than the reporting limit.